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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,470	01/22/2004	Valery M. Dubin	110348-134848	6669
25943 7590 04/29/2009 SCHWABE, WILLIAMSON & WYATT, P.C. PACWEST CENTER, SUITE 1900			EXAMINER	
			LAMB, BRENDA A	
1211 SW FIFTH AVENUE PORTLAND, OR 97204			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			04/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/763,470	DUBIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brenda A. Lamb	1792				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 29 Ja	nuary 2009.					
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· <u> </u>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>5-8,41 and 42</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>5-8,41 and 42</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
· · · <u> </u>						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the o	• • • • • • • • • • • • • • • • • • • •	, ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/763,470

Art Unit: 1792

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5-8 and 41-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how the constituent chemicals set forth at line 5 of claim 5 relates to the chemicals at line 2 of claim 6, to the chemicals at lines 2-6 of claim 7, to chemicals at lines 2-3 of claim 8 and to the chemicals at lines 2-3 of claim 41. The term "the metal" at line 2 of claim 8 and "the one or more complexing agent" at line 2 of claim 8. It is unclear how the recitation that the system controller is configured to interface with the plurality of tanks in claim 42 further limits claim 5 which claims the system controller controls a supply of the constituent chemicals to the mixing point since to control the supply of the constituent chemicals to the mixing point the system controller has to interface with the tanks. It is suggested that applicant amend claim 5 as follows: at line 14 of claim 5 after "control a supply to the mixing point of the constituent chemicals" insert -- by interfacing with the plurality of tanks --.

Claims 5-8 and 41-42 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The prior art fails to teach or suggest a system comprising: a point-of-use process chamber including a drain and configured to apply a plating solution to plate one or more wafers by spray, microcell, or spin on; a plurality of tanks to

Art Unit: 1792

separately hold constituent chemicals of the plating solution; a piping system having a plurality of segments, including a plurality of in-line heaters for a subset of the segments, to separately route, in-line heat, and after heating, mix, at a mixing point, the constituent chemicals of the plating solution to form the plating solution, substantially just prior to application to the one or more wafers; and a system controller configured to receive results of a qualification analysis of the plating solution and control a supply to the mixing point of the constituent chemicals by interfacing with the plurality of tanks based on the qualification analysis.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 1792

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda A. Lamb whose telephone number is (571) 272-1231. The examiner can normally be reached on Monday-Tuesday and Thursday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton, can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brenda A Lamb Primary Examiner Art Unit 1792

/Brenda A Lamb/

Primary Examiner, Art Unit 1792